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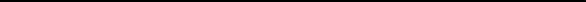
Substitute for form 1468/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/661,355
				Filing Date	09/12/2003
				First Named Inventor	Andrew Vaillant
				Group Art Unit	1645
				Examiner Name	
(use as many sheets as necessary)				Attorney Docket Number	029849-0208
Sheet	1	of	13		

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

NON PATENT LITERATURE DOCUMENTS

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SN	A2	AGRAWAL and KANDIMALLA, "Antisense and/or Immunostimulatory Oligonucleotide Therapeutics," <i>Current Cancer Drug Targets</i> 1:197-209 (2001)	
SN	A3	ALLEN and CHONN, "Large Unilamellar Liposomes with Low Uptake into the Reticuloendothelial System," <i>FEBS Letters</i> 223(1):42-46 (1987)	
SN	A4	ARCHAMBAULT, et al., "Phosphorothioate oligonucleotides inhibit the replication of lentiviruses and type D retroviruses, but not that of type C retroviruses," <i>Arch Virol</i> 139:97-109 (1994)	

Examiner Signature		Date Considered	Jan 04 2006
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
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SH	A5	BERKOW, et al., "Nonsteroidal Anti-Inflammatory Drugs (NSAIDs)," <i>The Merck Manual of Diagnosis and Therapy</i> , 15 th ed., 2499-2506 and 46-49 (1987)	
SH	A6	BLUME and CEVC, "Liposomes for the sustained drug release in vivo," <i>Biochimica et Biophysica Acta</i> 1029:91-97 (1990)	
SH	A7	BRUNTON, "Section VI Drugs Affecting Gastrointestinal Function," <i>The Pharmacological Basis of Therapeutics</i> 9(38):934-935 (1996)	
SH	A8	BUUR, et al., "Penetration of 5-Fluorouracil and Prodrugs Across the Intestine of the Albino Rabbit: Evidence for Shift in Absorption Site from the Upper to the Lower Region of the Gastrointestinal Tract by Prodrugs," <i>Journ. of Controlled Release</i> 14:43-51 (1990)	
SH	A9	CAMPBELL and REIN, "In Vitro Assembly Properties of Human Immunodeficiency Virus Type 1 Gag Protein Lacking the p6 Domain," <i>Journ. of Virol.</i> 73:2270-2279 (1999)	
SH	A10	CEVC, et al., "Ultraflexible vesicles, Transfersomes, have an extremely low pore penetration resistance and transport therapeutic amounts of insulin across the intact mammalian skin," <i>Biochimica et Biophysica Acta</i> 1368:201-215 (1998)	
SH	A11	CHENG, et al., "Interactions Between Single-Stranded DNA Binding Protein and Oligonucleotide Analogs with Different Backbone Chemistries," <i>Journ. Mol. Recognition</i> 10:101-107 (1997)	
SH	A12	CONSTANTINIDES, et al., "Formulation and Intestinal Absorption Enhancement Evaluation of Water-in-Oil Microemulsions Incorporating Medium-Chain Glycerides," <i>Pharmaceutical Res.</i> 11:1385-1390 (1994)	
SH	A13	CROOKE, et al., "Pharmacokinetic Properties of Several Novel Oligonucleotide Analogs in mice," <i>Journ. Pharm. and Experim. Therap.</i> 277(2):923-937 (1996)	
SH	A14	CROOKE, S., "Progress in Antisense Technology: The End of the Beginning," <i>Meth. in Enzym.</i> 313:3-45 (1999)	

Examiner Signature	<i>Sharon R. Hees</i>	Date Considered	<i>Jan 4, 2006</i>
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BR	A15	Du PLESSIS, et al., "Topical Delivery of Liposomally Encapsulated Gamma-Interferon," <i>Antivir. Res.</i> 18:259-265 (1992)			T ⁶
BR	A16	EL-HARIRI, et al., "The Mitigating Effects of Phosphatidylcholines on Bile Salt- and Lysophosphatidylcholine-induced Membrane Damage," <i>J. Pharm. Pharmacol.</i> 44:651-654 (1992)			
BR	A17	ENGLISCH and GAUSS, "Chemically Modified Oligonucleotides as Probes and Inhibitors," <i>Angewandte Chemie</i> 30(6):613-722 (1991)			
BR	A18	FENG, et al., "Reversible Binding of Recombinant Human Immunodeficiency Virus Type 1 Gag Protein to Nucleic Acids in Virus-Like Particle Assembly In Vitro," <i>Journ. of Virol.</i> 76(22):11757-11762 (2002)			
BR	A19	FENNEWALD, et al., "Inhibition of herpes simplex virus in culture by oligonucleotides composed entirely of deoxyguanosine and thymidine," <i>Antiviral Res.</i> 26:37-54 (1995)			
BR	A20	GABIZON, et al., "Liposome formulations with prolonged circulation time in blood and enhanced uptake by tumors," <i>Proc. Natl. Acad. Sci. USA</i> 85:6949-6953 (1988)			
BR	A21	GOA, et al., "Effect of Phosphorothioate Homo-oligodeoxynucleotides on Herpes Simplex Virus Type 2-induced DNA Polymerase," <i>Journ. of Biol. Chem.</i> 264(19):11521-11526 (1989)			
BR	A22	GAO, et al., "Inhibition of Herpes Simplex Virus Type 2 Growth by Phosphorothioate Oligodeoxynucleotides," <i>Antimicrobial Agents and Chemotherapy</i> 34(5):808-812 (1990)			

Examiner Signature	<i>S. Vaillant & Hens</i>	Date Considered	<i>Jan 4, 2006</i>
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SN	A23	HIGUCHI, et al., "Particle Phenomena and Course Dispersions," <i>Remington's Pharmaceutical Sciences</i> 21:301-329 (1985)				
SN	A24	HO, et al., "Preparation of Microemulsions Using Polyglycerol Fatty Acid Esters as Surfactant for the Delivery of Protein Drugs," <i>Journ. of Pharm. Sci.</i> 85:138-143 (1996)				
SN	A25	HU, et al., "Topical delivery of cyclosporine A from non-ionic liposomal systems: an <i>in vivo/in vitro</i> correlation study using hairless mouse skin," <i>S.T.P. Pharma Sciences</i> 4(6):466-469 (1994)				
SN	A26	ILLUM and DAVIS, "The organ uptake of intravenously administered colloidal particles can be altered using a non-ionic surfactant (Poloxamer 338)," <i>FEBS</i> 1212 167:79-82 (1984)				
SR	A27	INAGAWA, et al., "Inhibition of human immunodeficiency virus type 1 replication by P-stereodefined oligo (nucleoside phosphorothioate)s in a long-term infection model," <i>FEBS Lett.</i> 528:48-52 (2002)				
SN	A28	JAIRATH, et al., "Inhibition of respiratory syncytial virus replication by antisense oligodeoxyribonucleotides," <i>Antiviral Res.</i> 33:201-213 (1997)				
SN	A29	JARRETT, H., "Affinity chromatography with nucleic acid polymers," <i>J. Chromatography</i> 618:315-339 (1993)				
SN	A30	KABANOV, et al., "A new class of antivirals: antisense oligonucleotides combined with a hydrophobic substituent effectively inhibit influenza virus reproduction and synthesis of virus-specific proteins in MDCK cells," <i>FEBS Lett.</i> 259:327-330 (1990)				

Examiner Signature	<i>Stevan L. Kline</i>	Date Considered	<i>Jan 4, 2006</i>
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<i>Sh</i>	A31	KANDIMALLA, et al., "Effects of Phosphorothioate Oligodeoxyribonucleotide and Oligoribonucleotides on Human Complement and Coagulation," <i>Bioorg. & Med. Chem. Lett.</i> 8:2103-2108 (1998)			
<i>Sh</i>	A32	KEAN, et al., "Inhibition of Herpes Simplex Virus Replication by Antisense Oligo-2'-0-methylribonucleoside Methylphosphonates," <i>Biochemistry</i> 34:14617-14620 (1995)			
<i>Sh</i>	A33	KLIBANOV, et al., "Amphipathic polyethyleneglycols effectively prolong the circulation time of liposomes," <i>FEBS Lett.</i> 268:235-237 (1990)			
<i>Sh</i>	A34	KLIMUK, et al., "Enhanced Anti-Inflammatory Activity of a Liposomal Intercellular Adhesion Molecule-1 Antisense Oligodeoxynucleotide in an Acute Model of Contact Hypersensitivity," <i>Journ. of Pharm. & Exper. Ther.</i> 292:480-488 (2000)			
<i>Sh</i>	A35	KOOL, E., "Replacing the Nucleobases in DNA with Designer Molecules," <i>Acc. Chem. Res.</i> 35:936-943 (2002)			
<i>Sh</i>	A36	LAVIGNE et al., "Is antisense an appropriate nomenclature od design for oligodeoxynucleotides aimed at the inhibition of HIV-1 replication?" <i>AAPS PharmSci</i> , 4:1-11, 2002			
<i>Sh</i>	A37	LEBEDEVA and STEIN, "Antisense Oligonucleotides: Promise and Reality," <i>Annu. Rev. Pharmacol. Toxicol.</i> 41:403-419 (2001)			
<i>Sh</i>	A38	LEE, et al., "Mucosal Penetration Enhancers For Facilitation of Peptide and Protein Drug Absorption," <i>Crit. Rev. in Ther. Drug Carrier Syst.</i> 8(2):91-192 (1991)			

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SN	A39	LERNER, et al., "A Six-Month Trial of Valacyclovir in the Epstein-Barr Virus Subset of Chronic Fatigue Syndrome: Improvement in Left Ventricular Function," <i>Drugs of Today</i> 38(8): 549-561 (2002)	
SN	A40	LETSINGER, et al., "Cholesteryl-conjugated oligonucleotides: Synthesis, properties, and activity as inhibitors of replication of human immunodeficiency virus in cell culture," <i>Proc. Natl. Acad. Sci. USA</i> 86:6553-6556 (1989)	
SN	A41	MANOHARAN, et al., "Chemical Modifications to Improve Uptake and Bioavailability of Antisense Oligonucleotides," <i>Ann. N.Y. Acad. Sci.</i> 660:306-309 (1992)	
SN	A42	MANOHARAN, et al., "Introduction of a Lipophilic Thioether Tether in the Minor Groove of Nucleic Acids for Antisense Applications," <i>Bioorg. & Med. Chem. Letters</i> 3:2765-2770 (1993)	
SN	A43	MANOHARAN, et al., "Cholic Acid-Oligonucleotide Conjugates for Antisense Applications," <i>Bioorg. & Med. Chem. Lett.</i> 4:1053-1060 (1994)	
SN	A44	MANOHARAN, et al., "Oligonucleotide Conjugates: Alteration of the Pharmacokinetic Properties of Antisense Agents," <i>Nucleosides & Nucleotides</i> 14(3-5):969-973 (1995)	
SN	A45	MANOHARAN, et al., "Lipidic Nucleic Acids," <i>Tetrahedron Lett.</i> 36:3651-3654 (1995)	
SN	A46	MARHSALL, et al., "Inhibition of human immunodeficiency virus activity by phosphorodithioate oligodeoxycytidine," <i>Proc. Natl. Acad. Sci. USA</i> 89:6265-6269 (1992)	

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<i>SA</i>	A47	MARSHALL and CARUTHERS, "Phosphorodithioate DNA as a Potential Therapeutic Drug," <i>Science</i> 259:1564-1570 (1993)	
<i>SA</i>	A48	MATSUKURA et al., "Antisense phosphorothioates as antivirals against human immunodeficiency virus (HIV) and hepatitis B virus (HBV)," <i>Toxicology Letters</i> , 82/83: 435-538, 1995.	
<i>SA</i>	A49	MATSUKURA, et al., "Phosphorothioate Analogs of Oligodeoxynucleotides: Inhibitors of Replication and Cytopathic Effects of Human Immunodeficiency Virus," <i>Proc. Natl. Acad. of Sciences of USA</i> 84:7706-7710 (1987)	
<i>SA</i>	A50	MISHRA, et al., "Improved leishmanicidal effect of phosphorothioate antisense oligonucleotides by LDL-mediated delivery," <i>Biochimica et Biophysica Acta</i> 1264:229-237 (1995)	
<i>SA</i>	A51	MIYANO-KUROSAKI et al., "Inhibition of HTLV-I induction and virus-induced syncytia formation by oligodeoxynucleotides." <i>Virus Genes</i> , 12:205-217, 1996.	
<i>SA</i>	A52	MIYAO, et al., "Stability and Pharmacokinetic Characteristics of Oligonucleotides Modified at Terminal Linkages in Mice," <i>Antisense Res. & Dev.</i> 5:115-121 (1995)	
<i>SA</i>	A53	MONTEITH, et al., "Preclinical Evaluation of the Effects of a Novel Antisense Compound Targeting C-raf Kinase in Mice and Monkeys," <i>Toxicolog. Sciences</i> 46:365-375 (1998)	
<i>SA</i>	A54	MORRIS, et al., "High Affinity Ligands from <i>in vitro</i> Selection: Complex Targets," <i>Proc. Natl. Acad. Sci. USA</i> 95:2902-2907 (1998)	

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SN	A55	MURANISHI, S., "Absorption Enhancers," <i>Crit. Rev. in Ther. Drug Carr. Syst.</i> 7:1-33 (1990)	
SN	A56	NANDI, et al., "DNA-induced Partial Unfolding of Prion Protein Leads to its Polymerisation to Amyloid," <i>J. Mol. Biol.</i> 322:153-161 (2002)	
SN	A57	NEURATH, et al., "Anti-HIV-1 activity of anionic polymers: a comparative study of candidate microbicides," <i>BMC Infectious Diseases</i> 2:1-11 (2002)	
SN	A58	OBERHAUSER and WAGNER, "Effective incorporation of 2'-0-methyl-oligoribonucleotides into liposomes and enhanced cell association through modification with thiocholesterol," <i>Nucleic Acids Res.</i> 20(3):533-538 (1992)	
SN	A59	OLIVIERI, et al., "Hepatitis C Virus and Arthritis," <i>Rheumatic Diseases Clinics of North America</i> 29:1-18 (2003)	
SN	A60	ORUM and WENGEL, "Locked nucleic acids: A promising molecular family for gene-function analysis and antisense drug development," <i>Curr. Op. in Molecular Ther.</i> 3:239-243 (2001)	
SN	A61	PAN et al., "Isolation of virus-neutralizing RNAs from a large pool of random sequences." <i>Proc. Nat. Acad. Sci. USA</i> , 92:11509-11513, 1995.	
SN	A62	PAPAHADJOPoulos, et al., "Targeting of Liposomes to Tumor Cells <i>in Vivo</i> ," <i>Ann. N.Y. Acad. Sci.</i> pp. 64-74 (1987)	

Examiner Signature	<i>Sharon L. Kletz</i>	Date Considered	<i>Jan 4, 2006</i>
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/661,355
				Filing Date	09/12/2003
				First Named Inventor	Andrew Vaillant
				Group Art Unit	1645
				Examiner Name	
(use as many sheets as necessary)				Attorney Docket Number	029849-0208
Sheet	9	of	13		

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ⁶
<i>SH</i>	A63	PEYMAN, et al., "Inhibition of Viral Growth by Antisense Oligonucleotides Directed against the IE110 and the UL30 mRNA of Herpes Simplex Virus Type-1," <i>Biol. Chem. Hoppe-Seyler</i> 376:195-198 (1995)			
<i>SH</i>	A64	QI, et al., "Study on the Inhibitory effect of antisense phosphorthioate oligodeoxynucleotide on coxsackie virus B ₃ replication <i>in vitro</i> ," <i>Chinese J Exp. Clin. Virol.</i> 14:253-256 (2000)			
<i>SH</i>	A65	RITSCHEL, W., "Standards of Clinical Investigations in the USA," <i>Meth. Find Exp. Clin. Pharmacol.</i> 15(4):207-215 (1993)			
<i>SH</i>	A66	SAISON-BEHMOARAS, et al., "Short modified antisense oligonucleotides directed against Ha-ras point mutation induce selective cleavage of the mRNA and inhibit T24 cells proliferation," <i>The EMBO Journal</i> 10:1111-1118 (1991)			
<i>SH</i>	A67	SANGHVI, Y., "Heterocyclic Base Modifications in Nucleic Acids and Their Applications in Antisense Oligonucleotides," <i>Antisense Research and Applications</i> Ch. 15:273-288 (1993)			
<i>SH</i>	A68	SCHOTT, H., "Colloidal Dispersions," <i>Remington's Pharmaceutical Sciences</i> Ch. 20:271-300 (1985)			
<i>SH</i>	A69	SHEA, et al., "Synthesis, hybridization properties and antiviral activity of lipid-oligodeoxynucleotide conjugates," <i>Nucleic Acids Res.</i> 18:3777-3783 (1990)			
<i>SH</i>	A70	STAHL, et al., "High Incidence of Parvovirus B19 DNA in Synovial Tissue of Patients with Undifferentiated Mono- and Oligoarthritis," <i>Clin. Rheumatol.</i> 19:281-286 (2000)			

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<i>SH</i>	A71	STEIN and CHENG, "Antisense Oligonucleotides as Therapeutic Agents-Is the Bullet Really Magical?" <i>Science</i> 261:1004-1012 (1993)			
<i>SH</i>	A72	STEIN, et al., "Phosphorothioate Oligodeoxynucleotides Are Potent Sequence Nonspecific Inhibitors of De Novo Infection by HIV," <i>AIDS Res. & Human Retroviruses</i> 5:639-646 (1989)			
<i>SH</i>	A73	STEIN, C.A., "The experimental use of antisense oligonucleotides: a guide for the perplexed," <i>J. Clin. Invest.</i> 108:641-644 (2001)			
<i>SH</i>	A74	SUNAMOTO, et al., "Liposome Membranes. V. Interaction of Zinc(II) Ion with Egg Phosphatidylcholine Liposomes," <i>Bull. Chem. Soc. Jpn.</i> 53:2778-2781 (1980)			
<i>SH</i>	A75	SWINYARD, <i>Remington's Pharmaceutical Sciences</i> 18th Ed., Ch. 39:782-783 (1990)			
<i>SH</i>	A76	SVINARCHUK, et al., "Inhibition of HIV proliferation in MT-4 cells by antisense oligonucleotide conjugated to lipophilic groups," <i>Biochimie</i> 75:49-54 (1993)			
<i>SH</i>	A77	TAKAHASHI and YAMADA, "Viral Etiology for Parkinson's Disease – A Possible Role of Influenza A Virus Infection," <i>Jpn J Infect Dis.</i> 52:89-98 (1999)			
<i>SH</i>	A78	TAKAHASHI, et al., "The Use of Perfluorochemical Emulsion as a Vascular Perfusate in Drug Absorption," <i>J. Pharm. Pharmacol.</i> 40:252-257 (1988)			

Examiner Signature	<i>S. Pearson L. Keut</i>	Date Considered	<i>Jan 4, 2006</i>
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BH	A79	TAKAKURA, et al., "Uptake Characteristics of Oligonucleotides in the Isolated Rat Liver Perfusion System," <i>Antisense & Nucleic Acid Drug Developmt.</i> 6:177-183 (1996)	
BH	A80	TAKESHITA, et al., "Oligodeoxynucleotides Containing Synthetic Abasic Sites," <i>Journ. of Biol. Chem.</i> 262:10171-10179 (1987)	
BH	A81	TALBOT, et al., "Virus-Induced Autoimmune Reactions in the CNS," <i>Curr Top Microbiol Immunol</i> 253:247-271 (2001)	
BH	A82	KROSCHWITZ, J. I., <i>The Concise Encyclopedia Of Polymer Science And Engineering</i> , pp. 858-864 (1990)	
BH	A83	<i>The Merck Manual of Diagnosis and Therapy</i> 15:1206-1228 (1987)	
BH	A84	TONKINSON, et al., "Cellular Pharmacology and Protein Binding of Phosphoromonothioate and Phosphorodithioate Oligodeoxynucleotides: A Comparative Study," <i>Antisense Res. & Developmt.</i> 4:269-278 (1994)	
BH	A85	VIVES, et al., "Lipophilic pro-oligonucleotides are rapidly and efficiently internalized in HeLa cells," <i>Nucleic Acids Res.</i> 27:4071-4076 (1999)	
BH	A86	WALTER, et al., "Viral induction of a chronic asthma phenotype and genetic segregation from the acute response," <i>Journ. of Clin. Invest.</i> 110:165-286 (2002)	

Examiner Signature	<i>S. Karen L. Keut</i>	Date Considered	Jan 4, 2006
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				Filing Date	09/12/2003
				First Named Inventor	Andrew Vaillant
				Group Art Unit	1645
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SN	A87	WANG and HUANG, "Plasmid DNA Adsorbed to pH-Sensitive Liposomes Efficiently Transforms the Target Cells," <i>Bioch. & Biophys. Res. Comm.</i> 147(3):980-985 (1987)			
SN	A88	WEINER, et al., "Liposomes: A Novel Topical Delivery System for Pharmaceutical and Cosmetic Applications," <i>Journ. of Drug Targeting</i> 2:405-410 (1994)			
SN	A89	WU, et al., "Increased Microvascular Permeability Contributes to Preferential Accumulation of Stealth Liposomes in Tumor Tissue," <i>Cancer Research</i> 53:3765-3770 (1993)			
SN	A90	YAMAMOTO, et al., "A Mechanistic Study on Enhancement of Rectal Permeability to Insulin in the Albino Rabbit," <i>Journ. of Pharm. and Exp. Ther.</i> 263:25-31 (1992)			
SN	A91	YAMASHITA, et al., "Effects of diclofenac sodium and disodium ethylenediaminetetraacetate on electrical parameters of the mucosal membrane and their relation to the permeability enhancing effects in the rat jejunum," <i>J. Pharm. Pharmacol.</i> 39:621-626 (1987)			
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SN	A93	YU, et al., "Stereo-Enriched Phosphorothioate Oligodeoxynucleotides: Synthesis, Biophysical and Biological Properties," <i>Biorg. & Medicinal Chem.</i> 8:275-284 (2000)			
SN	A94	ZAMECNIK, et al., "Inhibition of replication and expression of human T-cell lymphotropic virus type III in cultured cells by exogenous synthetic oligonucleotides complementary to viral RNA," <i>Proc. Natl. Acad. Sci. USA</i> 83:4143-4146 (1986)			

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SN	A95	ZHOU and HUANG, "Targeted delivery of DNA by liposomes and polymers," <i>Journ. of Controlled Release</i> 19:269-274 (1992)	
SN	A96	International Search Report from PCT Application No. PCT/IB03/04573 dated Feb. 18, 2004.	

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